

Chapter 7 System of Equations**Section 7.5: Using Elimination to Solve system of Linear Equations****Example 2:** Solve the following systems by using the method of elimination.

a) $3x + 2y = 12$ $\times 2$
 $2x + 3y = 13$ $\times 3$

b) $2x - 3y = 10$
 $-4x + 6y = -20$

Example 3: Solve the following systems by using the method of elimination. You may need to simplify or rearrange the equations first!

a) $y + 2x = 10 + 4y$ \rightarrow $\boxed{1}$
 $4(x + y) = 42 - y$ \rightarrow $\boxed{2}$

b) $\frac{x}{5} + \frac{3y}{10} = 2$
 $\frac{x}{2} + \frac{2y}{5} = \frac{29}{10}$